TABLE 1

Conditions of Circumferential Surface of Cooling Roll and Grooves Formed therein

		UI I	0 0,00000	Officu merent		
	Average Width L, (µm)	Average Depth L ₂ (μπ)	Average Pitch L ₃ (μm)	Angle θ	Projected Area of Portion of Grooves (%)	Surface Roughness Ra (µm)
Example 1	15.0	3.2	30.0	0°	50	0.80
Example 2	5.0	5.0	12.5	3°	40	1.12
Example 3	9.2	1.5	10.0	5°	92	0.50
Example 4	27.0	8.0	90.0	10°	30	2.10
Example 5	30.0	2.0	50.0	15°	60	0.55
Example 6	15.0	1.8	20.0	20°	75	0.60
Example 7	6.4	4.0	8.0	28°	80	0.95
Example 8	9.5	2,5	15.0	$\theta_1 = 15^{\circ}$ $\theta_2 = 15^{\circ}$	58	0.63
Example 9	20.0	1.5	30.0	θ ₁ =10° θ ₂ =20°	63	0.45
Comp.Ex.	-	-	-	-	-	0.08

TABLE 2

Average Thickness of Melt Spun Ribbon and Magnetic Properties thereof

(Examples 1 - 7)

	Sample No.	Average Thickness (µm)	H _{CJ} (kA/m)	Br (T)	(BH) _{max} (kJ/m³)
	1	19	555	1.06	160
	2	19	550	1.05	156
Example 1	3	18	545	1.06	158
	4	18	548	1.06	160
	5	19	552	1.05	157
	1	20	560	1.04	152
	2	19	555	1.05	155
Example 2	3	19	553	1.05	153
	4	20	561	1.05	154
	5	19	556	1.04	150
	1	22	570	1.02	150
	2	21	562	1.03	149
Example 3	3	20	558	1.02	149
	4	22	569	1.01	152
	5	21	560	1.02	151
	1	25	554	0.96	138
	2	19	538	0.98	142
Example 4	3	24	550	0.96	140
·	4	20	542	0.97	143
	5	21	545	0.97	137
	1	20	562	1.04	155
	2	20	560	1.04	152
Example 5	3	21	564	1.03	153
·	4	20	560	1.04	151
	5	21	565	550 1.05 545 1.06 548 1.06 552 1.05 560 1.04 555 1.05 561 1.05 556 1.04 570 1.02 562 1.03 558 1.02 569 1.01 560 1.02 554 0.96 538 0.98 550 0.96 542 0.97 562 1.04 560 1.04 564 1.03 560 1.04	150
	1	17	528	1.05	159
Example 6	2	18	535	1.05	158
	3	18	532	1.05	155
	4	17	529	1.06	157
	5	18	533	1.05	155
	1	21	559	1.03	156
	2	22	563	1.03	153
Example 7	3	20	557	1.04	154
,	4	20	556	1.04	151
	5	20	558	1.04	152

TABLE 3

Average Thickness of Melt Spun Ribbon and Magnetic Properties thereof

(Examples 8 and 9, Comp. Ex.)

			(227(3111)511		(2)
	Sample No.	Average Thickness	H _{CJ} (kA/m)	Br (T)	(BH) _{max} (kJ/m³)
		(µm)			
Example 8	1	19	548	1.05	149
	2	20	553	1.03	150
	3	21	545	1.04	152
	4	19	549	1.04	151
	5	21	555	1.02	154
Example 9	1	21	560	1.02	149
	2	22	562	1.01	148
	3	20	555	1.01	150
	4	19	557	1.03	148
	5	21	563	1.02	147
Comp.Ex.	1	30	413	0.72	59
	2	18	235	0.90	72
	3	20	370	0.81	75
	4	28	330	0.78	63
	5	17	210	0.65	55

TABLE 4

Mean Particle Size of Magnetic Powder and Magnetic Properties of Bonded Magnet

ean	H _{CJ} (kA/m)	Br (T)	(RH)
de Size	LICT (WALL)	Di (1)	(BH) _{max} (kJ/m³)
28	550	0.88	115
29	558	0.87	110
35	565	0.85	104
40	545	0.81	94
33	562	0.86	107
27	532	0.88	112
32	559	0.87	108
30	550	0.87	106
	560	0.85	103
	355	0.68	48
	nm) 28 29 35 40 33 27	nm) 28 550 29 558 35 565 40 545 33 562 27 532 32 559 30 550 34 560	10m) 28 550 0.88 29 558 0.87 35 565 0.85 40 545 0.81 33 562 0.86 27 532 0.88 32 559 0.87 30 550 0.87 34 560 0.85